

| | | | |
|--|--|---------------------------------------|-------------------------------|
| Substitute Form PTO-1449 (Modified) Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b)) | U.S. Department of Commerce Patent and Trademark Office | Attorney's Docket No. 12361-014002 | Application No. 10/005,745 |
| | Applicant X. Steve Yao | | |
| | Filing Date 11/2/01 | Group Art Unit 2873 | |

10/005745
11/02/01

| U.S. Patent Documents | | | | | | | |
|-----------------------|-----------|---------------|------------|-----------------|-------|----------|----------------------------|
| Examiner Initial | Desig. ID | Patent Number | Issue Date | Patentee | Class | Subclass | Filing Date If Appropriate |
| CG | AA | 3302028 | 1/1967 | STERZER | 359 | 256 | |
| | AB | 3684350 | 8/1972 | WENTZ | 359 | 256 | |
| | AC | 3719414 | 3/1973 | WENTZ | 359 | 256 | |
| | AD | 4461543 | 7/1984 | McMAHON | 359 | 320 | |
| | AE | 5251057 | 10/1993 | GUERIN et al. | 359 | 259 | |
| | AF | 5317445 | 5/1994 | DeJULE et al. | 359 | 250 | |
| | AG | 5373393 | 12/1994 | DeJULE et al. | 359 | 320 | |
| | AH | 5381250 | 1/1995 | MEADOWS | 359 | 39 | |
| CG | AI | 5475525 | 12/1995 | TOURNOIS et al. | 359 | 245 | |

| Foreign Patent Documents or Published Foreign Patent Applications | | | | | | | | |
|---|-----------|-----------------|------------------|--------------------------|-------|----------|-------------|----|
| Examiner Initial | Desig. ID | Document Number | Publication Date | Country or Patent Office | Class | Subclass | Translation | |
| | | | | | | | Yes | No |
| | AJ | | | | | | | |

| Other Documents (include Author, Title, Date, and Place of Publication) | | |
|---|-----------|--|
| Examiner Initial | Desig. ID | Document |
| CG | AK | E. Toughlian and H. Zmuda, "A photonic variable RF delay line for phased array antennas", J. Lightwave Technol., vol. 8, pp. 1824-828, 1990 |
| | AL | E. Toughlian, H. Zmuda, and P. Kornreich, "A deformable mirror-based beamforming system for phased array antennas", IEEE Photonics Technology Letters, vol. 2, No. 6, pp. 444-446, 1990 |
| | AM | C.T. Sullivan, S.D. Mukherjee, J.K. Hibbs-Brenner, and A. Gopinath, "Switched time-delay elements based on AlGaAs/GaAs optical wave-guide technology at 1.32 mm for optically controlled phased array antennas", SPIE Proceedings, vol. 1703, pp. 264-71, 1992 |
| | AN | N.A. Riza, "Transmit/receive time-delay beam forming optical architecture for phased array antennas", Appl. Opt., vol. 30, pp. 4594-4595, 1991 |
| | AO | A. Gutzoulis, K. Davis, P. Hrycak, and A. Johnson, "A hardware-compressive fiber-optic true time delay steering system for phased-array antennas", Microwave Journal, pp. 126-140, September 1994 |
| | AP | R. Soref, "Programmable time-delay devices", Applied Optics, vol. 23, no. 21, pp. 3736-3739, 1984 |
| | AQ | W. Ng, A. Walston, G. Tangonan, I. Newberg, and J.J. Lee, "Wideband fiber-optic network for phased array antenna steering", Electronics Letters, vol. 25, no. 21, pp. 1456-1457, 1989 |
| CG | AR | D. Dolfi, F. Michel-Gabriel, S. Bann, and J.P. Huignard, "Two-dimensional optical architecture for time-delay beam forming in a phased-array antenna", Optics Letters, vol. 16, no. 4, pp. 255-157, 1991 |

| | |
|--|-----------------------------|
| Examiner Signature <i>[Signature]</i> | Date Considered 10/31/02 |
| EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | |

| | | | |
|--|--|---------------------------------------|--------------------------------------|
| Substitute Form PTO-1449 (Modified) | U.S. Department of Commerce Patent and Trademark Office | Attorney's Docket No. 12361-014002 | Application No. <u>10/005,745</u> |
| Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b)) | | Applicant X. Steve Yao | |
| | | Filing Date <u>11/2/01</u> | Group Art Unit <u>2873</u> |

| Other Documents (include Author, Title, Date, and Place of Publication) | | |
|---|-----------|--|
| Examiner Initial | Desig. ID | Document |
| <u>CS</u> | AS | B. Moslehi, K. Chau, and J. Goodman, "Fiber-optic signal processors with optical gain and reconfigurable weights", Proc. 4 th Biennial Department of Defense Fiber Optics and Photonics Conf., McLean, Virginia, pp. 303-309, 1994 |
| <u>CS</u> | AT | D. Norton, S. Johns, and R. Soref, "Tunable wideband microwave transversal filter using high dispersive fiber delay lines", Proc. 4 th Biennial Department of Defense Fiber Optics and Photonics Conf., McLean, Virginia, pp. 297-301, 1994 |

10005745-110201

| | |
|--|------------------------------------|
| Examiner Signature <u>[Signature]</u> | Date Considered <u>10/31/02</u> |
| EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | |